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1. AF141-036: Logistics Data Management, Error Handling, Corrective Action Framework

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an architecture, technology roadmap, and working prototype that operationalizes Logistics Systems Data Error Handling, Analytics, and Corrective Action Management Activities. DESCRIPTION: Air Force IT system modernization efforts continue to highlight the growing need for robust, standards-based, open service-oriented architectures. There is a critical need to provide a ...

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2. AF141-037: Laser for Airborne Communications (LAC)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Free Space Optical (FSO) based communication system supporting very high bandwidth communications for the airborne and surface layers. Threshold: reliable long-distance communication among moving platforms in wide variety of weather conditions. DESCRIPTION: The purpose of this topic is to explore innovative free space optical (FSO) based hardware and software approaches and impl ...

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3. AF141-038: Layered Virtualization Detection of Malicious Software Behavior ("Inception")

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Create an appliance which uses one or more layers of Type 2 (software) virtualization within a Type 1 ("bare metal") Hypervisor infrastructure which uses introspection to foil virtualization-aware malware escape attempts. DESCRIPTION: Modern malware (viruses, Trojans, etc.) will attempt to adapt to the environment they are executed in. For instance, many versions of modern malwa ...

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4. AF141-039: Process Level Virtualization for System Assurance

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Assure the proper handling of information from cradle to grave by leveraging process level virtualization throughout the information life cycle. This should also reduce malware propagation and improve access control, among other useful features. DESCRIPTION: Process level virtualization (such as Bromium"s"micro virtualization,"FreeBSD"Jails"or Qubes OS""AppVM,"among others) crea ...

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5. AF141-040: Establishing and Maintaining Mission Application Trust in a Shared Cloud

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop the methods, techniques, and protocols to establish and maintain mission application trust, and the resulting mission application security, in a shared cloud infrastructure. DESCRIPTION: The Air Force desires to utilize cloud computing for mission applications due to its significant cost reduction and scalability advantages, but needs to maintain the overall application ...

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6. AF141-041: Granular Compute Cloud Architecture

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a general purpose compute cloud architecture that allows more granular and flexible allocation of cloud computing resources for secure cloud-based mission application development. DESCRIPTION: All traditional virtualization technologies predate the cloud era, and have been designed to be backward compatible with existing systems at the binary level, thus making it easy t ...

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7. AF141-042: Protected Execution in Cloud Environments (PECE)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Analyze, develop and test a protected execution system that assures integrity of systems, software, and data by preventing unintended or unauthorized leakage through compromised third-party cloud infrastructures. DESCRIPTION: External attackers or malicious insiders can deploy a variety of attacks against cloud infrastructure to expose sensitive code and data [1]. These attacks ...

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8. AF141-043: Fault Isolation in Hypervisors with Live Migration

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To reduce the complexity and attack surface of commodity hypervisors and the virtual devices used by guest virtual machines without sacrificing live migration support. DESCRIPTION: One of the tenets of Cloud Computing is the ability to host multiple virtual machine instances (owned by multiple parties) on the same physical hardware with guarantees that the different machines wil ...

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9. AF141-044: Live Patching of Virtual Machines with Limited Guest Support

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: This topic seeks to advance the state of the art towards being able to apply patches to a running guest virtual machine directly from the hypervisor without specialized software running on the guest. DESCRIPTION: Patch management plays an important role in ensuring the overall security posture of machines. Traditionally, enterprise level patch management is conducted through the ...

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10. AF141-045: Conformal High-Efficiency Emitter Systems Enhancement (CHEESE)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop low- (to no-) protruding antennae for SWaP-constrained aerial platforms. Provide minimal penetration of platform skin and structure. DESCRIPTION: Provide approach for minimal impact for SWaP-C constrained aerial platforms, especially small to medium UAS that may be employed as dedicated maneuvering communications relays and gateways. The frequencies of interest for the a ...

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